

# Media Handling Apparatus with Thermal Regulation

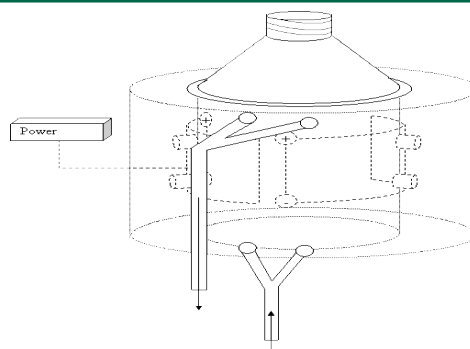
**R**esearchers at the University of South Florida have developed an ergonomic and safe heat-exchanging apparatus for handling and transporting laboratory vessels.

Flasks are universally employed in scientific, biomedical and industrial pursuits. The preparation of growth media, solutions, reactions and incubations typically must be conducted at specific temperatures.

The device presented allows the safe handling of flasks while affecting direct thermal control without the need for bulky waterbaths, heaters or incubators. The lightweight, self-contained design enables use atop standard stir plates and provides a stable, unobtrusive attachment point for probes, burettes, tubing and many other common laboratory equipment.

### ADVANTAGES:

- Industrial and laboratory applications
- Heating, cooling and thermocycling
- Seamlessly links to current technology
- Attachment point for burettes, probes etc.
- Lightweight with insulated handle
- Boil shield conserves media and avoids spillage



*Figure 1: Alternative Design to handle Larger vessels Flask*



*Figure 2: Designed Apparatus Handling an Erlenmeyer Flask*